

Determination of Rangeland Health for the Lloyds Canyon Allotment #65137

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for the implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these Standards.

Field assessment worksheets and other available data which evaluate the local indicators, were completed for this allotment. Based on the assessments, it is my determination that the Public Lands within the Lloyds Canyon Allotment #65137 meets the Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) the Riparian Standard.

/s/ T. R. KREAGER

Assistant Field Manager

09/08/2003

Date

Standards of Public Land Health

Evaluation of 65137 LLOYDS CANYON Allotment

[04/01/2003]

The Roswell Field Office conducted rangeland health assessments at six study sites within Allotment No. 65137, LLOYDS CANYON. The assessments looked at the Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of each study site. Existing monitoring data was incorporated into and in support of the field assessment. The summary of each assessment is attached and shown in the following table.

Study Area or Assessment Area	UPLAND			BIOTIC			RIPARIAN		
	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet
65137-HOME-D244 (*)	X			X			N/A		
65137-NORTH BIG-D246 (*)	X	*		X	*		N/A		
65137-RAILROAD-D247	X	*		X	*		N/A		
65137-RIVER #1-D243 (*)	X			X			N/A		
65137-RIVER #2-N005	X			X			X	*	
65137-SOUTH BIG-D245 (*)	X			X			N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for the Lloyds Canyon allotment #65137; 10 of these assessed soil/site stability, 11 assessed hydrologic functions and 13 assessed biotic integrity. These qualitative assessments along with quantitative information from long-term monitoring studies on six study areas on the allotment were utilized to assess the rangeland health of the public land within the allotment. These quantitative evaluations were performed by the Roswell Field office staff starting in the early 1980's. These included ground and vegetative cover and composition, production, frequency, and ecological condition as calculated from these collections which have been scheduled approximately every 5 years.

Monitoring will continue on the allotment and the attributes which were rated as Moderate or Moderate/Extreme will continue to be reviewed to detect changes that may occur.

While drought over the past three years has had an impact on these sites, the assessments of the indicators range from Moderate/Extreme to Slight to None. The presence of invasive plants (mesquite, opuntia and creosote) is common throughout the allotment and was rated as Moderate to Extreme on three sites. Portions of the North and South Big pastures are hummocky sands that are shrub dominated. These areas exhibit more extensive patterns of bare ground, water flow patterns and greater soil movement due to both water and wind.

A portion of the River pasture is within the floodplain of the Pecos River. In 2000 a monitoring study was established in the floodplain area. The Pecos Puzzle Sunflower population in Lloyds Canyon is located within this pasture. This population expands and contracts based on precip patterns and water availability in the draw. The monitoring of this population is continuing.

Oil and Gas activities in this area have been increasing in the last few years but do not appear at this time to be having adverse effects.

This allotment as a whole meets the standards for upland and biotic attributes. Further investigation may be required on those areas and similar ecological sites where brush encroachment may pose a problem in the future. The riparian standard is addressed for the floodplain area in the River pasture.

The (*) indicates that the assessment had one or more indicator(s) rated moderate/extreme or extreme. These indicators are:

- Pedestals and/or Terracettes
- Invasive Plants

These indicators by themselves are not enough to rate the site as not meeting a standard but may warrant future monitoring.

Recommendations:

RFOs Upland and Biotic Standard Assessment Summary Worksheet						
SITE 65137-HOME-D244						
Legal Land Desc	NWNW 6 0090S 0260E Meridian 23		Acreage		374	
Ecosite			Photo Taken		Y	
Watershed	13060003220 FILLMORE					
Observers	BAGGAO/SPAIN		Observation Date		04/08/2003	
County Soil Survey	NM644 CHAVES NORTH		Soil Var/Taxad			
Soil Map Unit	HMA		Soil Taxon Name		HOLLOMEX	
Texture Class	NM644 L		Soil Phase		HOLLOMEX- REEVES-MILNER	
Texture Modifier	NM644 LOAM,DRY					
Observed Avg Annual Precipitation			Observed Avg Growing Season Precipitation			
NOAA Annual Precipitation	12.74		NOAA Growing Season Precipitation		8.4	
NOAA Avg Annual Precipitation	13.18		NOAA Avg Growing Season Precipitation		10.83	
Disturbances and Animal Use:	Horses are grazing in pasture					
Part 2. Attributes and Indicators						
		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns				X	
Comments:						
S H	Pedestals and/or Terracettes				X	
Comments:						
S H	Bare Ground			X		

Comments:						
S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement					X
Comments:						
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:	Any more increase in mesquite would move to moderate					
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups				X	
Comments:						
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount				X	
Comments:						
B	Annual Production			X		
Comments:						
B	Invasive Plants		X			
Comments:	Mesquite and snakeweed					
B	Reproductive Capability of Perennial Plants					X
Comments:						
S	Physical/Chemical/Biological Crusts				X	
Comments:						

B	Wildlife Habitat				X	
Comments:	Shift toward shrubby species. Upland grassland habitat type with mesquite invasion.					
B	Wildlife Populations				X	
Comments:	No specific population information but a general shift toward species that prefer or can tolerate shrubby species. Mule deer, upland game birds and terrestrial nongame species.					
B	Special Status Species Habitat					X
Comments:	None known to occur.					
B	Special Status Species Populations					X
Comments:	None known to occur.					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	1	5	4
H	Hydrologic	0	0	1	6	4
B	Biotic	0	1	1	6	5

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	1	9

Hydrologic		0	1	10
Biotic		1	1	11
Site Notes:				

RFOs Upland and Biotic Standard Assessment Summary Worksheet						
SITE 65137-NORTH BIG-D246						
Legal Land Desc	SESE 32 0080S 0260E Meridian 23		Acreage		2848	
Ecosite			Photo Taken		Y	
Watershed	13060003220 FILLMORE					
Observers	BAGGAO/SPAIN		Observation Date		04/08/2003	
County Soil Survey	NM644 CHAVES NORTH		Soil Var/Taxad			
Soil Map Unit	SNB		Soil Taxon Name		SOTIM	
Texture Class	NM644 FSL		Soil Phase		SOTIM- SIMONA	
Texture Modifier	NM644 FINE SANDY LOAM					
Observed Avg Annual Precipitation			Observed Avg Growing Season Precipitation			
NOAA Annual Precipitation	12.74		NOAA Growing Season Precipitation		8.4	
NOAA Avg Annual Precipitation	13.18		NOAA Avg Growing Season Precipitation		10.83	
Disturbances and Animal Use:						
Part 2. Attributes and Indicators						
		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns			X		
Comments:						
S H	Pedestals and/or Terracettes				X	
Comments:						
S H	Bare Ground			X		

Comments:						
S H	Gullies			X		
Comments:	Old two track road down slope may gully if vegetation is loss					
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement				X	
Comments:						
S H B	Soil Surface Resistance to Erosion			X		
Comments:						
S H B	Soil Surface Loss or Degradation			X		
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X		
Comments:	The large draw to the south with mesquite hummocks will have somewhat of an adverse impact					
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups				X	
Comments:						
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount				X	
Comments:						
B	Annual Production				X	
Comments:	Tending toward moderate					
B	Invasive Plants		X			
Comments:	Mequite					
B	Reproductive Capability of Perennial Plants					X
Comments:						
S	Physical/Chemical/Biological Crusts					X

Comments:						
B	Wildlife Habitat			X		
Comments:	Grassland habitat with mesquite invasion, potential pronghorn habitat degraded.					
B	Wildlife Populations			X		
Comments:	No specific population information. Shift toward wildlife species that prefer or can tolerate shrubby species. Potential pronghorn antelope habitat.					
B	Special Status Species Habitat					X
Comments:	None known to occur.					
B	Special Status Species Populations					X
Comments:	None known to occur.					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	5	1	4
H	Hydrologic	0	0	6	3	2
B	Biotic	0	1	4	3	5

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets

Soil	Meets but within the lower range, continue to monitor to detect any changes that may be detrimental to the site.	0	5	5
Hydrologic	Meets but within the lower range, continue to monitor to detect any changes that may be detrimental to the site.	0	6	5
Biotic	Meets but within the lower range, continue to monitor to detect any changes that may be detrimental to the site.	1	4	8
Site Notes:				

RFOs Upland and Biotic Standard Assessment Summary Worksheet

SITE 65137-RAILROAD-D247

Legal Land Desc	NENW 31 0080S 0260E Meridian 23	Acreage	736
Ecosite		Photo Taken	Y
Watershed	13060003220 FILLMORE		
Observers	BAGGAO/SPAIN	Observation Date	04/08/2003
County Soil Survey	NM644 CHAVES NORTH	Soil Var/Taxad	
Soil Map Unit	HMA	Soil Taxon Name	HOLLOMEX
Texture Class	NM644 L	Soil Phase	HOLLOMEX- REEVES-MILNER
Texture Modifier	NM644 LOAM,DRY		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	12.74	NOAA Growing Season Precipitation	8.4
NOAA Avg Annual Precipitation	13.16	NOAA Avg Growing Season Precipitation	10.83
Disturbances and Animal Use:			

Part 2. Attributes and Indicators

		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns			X		
Comments:						
S H	Pedestals and/or Terracettes			X		
Comments:						

S H	Bare Ground				X	
Comments:						
S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement					X
Comments:						
S H B	Soil Surface Resistance to Erosion			X		
Comments:						
S H B	Soil Surface Loss or Degradation			X		
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups			X		
Comments:						
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount				X	
Comments:						
B	Annual Production			X		
Comments:						
B	Invasive Plants			X		
Comments:	Mesquite in patches and in the shallow drainages					
B	Reproductive Capability of Perennial Plants				X	
Comments:						
S	Physical/Chemical/Biological Crusts				X	

Comments:						
B	Wildlife Habitat			X		
Comments:	A grassland habitat type with brush encroachment on gypsiferous soils.					
B	Wildlife Populations			X		
Comments:	Decrease in grass cover, drought effect may contribute to lower upland game bird habitat, i.e., quail.					
B	Special Status Species Habitat					X
Comments:	None known to occur.					
B	Special Status Species Populations					X
Comments:	None known to occur.					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	4	2	4
H	Hydrologic	0	0	4	3	4
B	Biotic	0	0	7	2	4

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	4	6

Hydrologic		0	4	7
Biotic		0	7	6
Site Notes: Although NRCS soils data indicate a Gyp Upland CP-2, the site is a Gyp Upland SD-3. This is based on location and landscape.				

RFOs Upland and Biotic Standard Assessment Summary Worksheet						
SITE 65137-RIVER #1-D243						
Legal Land Desc	SESW 12 0090S 0250E Meridian 23		Acreage		1742	
Ecosite			Photo Taken		Y	
Watershed	13060007010 GOPHER					
Observers	BAGGAO/SPAIN		Observation Date		04/03/2003	
County Soil Survey	NM644 CHAVES NORTH		Soil Var/Taxad			
Soil Map Unit	HMA		Soil Taxon Name		HOLLOMEX	
Texture Class	NM644 L		Soil Phase		HOLLOMEX- REEVES-MILNER	
Texture Modifier	NM644 LOAM,DRY					
Observed Avg Annual Precipitation			Observed Avg Growing Season Precipitation			
NOAA Annual Precipitation	12.74		NOAA Growing Season Precipitation		8.4	
NOAA Avg Annual Precipitation	13.16		NOAA Avg Growing Season Precipitation		10.83	
Disturbances and Animal Use:						
Part 2. Attributes and Indicators						
		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills				X	
Comments:						
S H	Water Flow Patterns			X		
Comments:						
S H	Pedestals and/or Terracettes		X			
Comments:						

S H	Bare Ground			X		
Comments:						
S H	Gullies				X	
Comments:	More common on the breaks to the flood plain					
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:	N/A					
H	Litter Movement			X		
Comments:						
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups				X	
Comments:						
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount				X	
Comments:						
B	Annual Production			X		
Comments:						
B	Invasive Plants			X		
Comments:	Mesquite is patchy					
B	Reproductive Capability of Perennial Plants			X		
Comments:						
S	Physical/Chemical/Biological Crusts				X	

Comments:	Scattered no continuity					
B	Wildlife Habitat				X	
Comments:	An upland site in river Pasture. Mesquite invasion, decrease in preferable shrubs.					
B	Wildlife Populations				X	
Comments:	No specific population information. Trend for general wildlife population and diversity is static based on the soil/vegetative type in area.					
B	Special Status Species Habitat					X
Comments:	None known to occur.					
B	Special Status Species Populations					X
Comments:	None known to occur.					
Part 3. Summary						
A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.						
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	1	2	5	2
H	Hydrologic	0	1	3	6	1
B	Biotic	0	0	3	6	4
B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the <i>Does not Meet</i> column, Moderate becomes <i>May Need More Info</i> , and Slight to Moderate and None to Slight merge to form the <i>Meets</i> columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.						
Attribute	Rationale			Does Not Meet	May Need More Info	Meets

Soil		1	2	7
Hydrologic		1	3	7
Biotic		0	3	10
Site Notes: This site is on the first upper terrace above the breaks to the floodplain				

RFOs Upland and Biotic Standard Assessment Summary Worksheet						
SITE 65137-RIVER #2-N005						
Legal Land Desc	SESE 11 0090S 0250E Meridian 23	Acreage		220		
Ecosite		Photo Taken		Y		
Watershed	13060007010 GOPHER					
Observers	SPAIN/BAGGAO	Observation Date		04/03/2003		
County Soil Survey	NM644 CHAVES NORTH	Soil Var/Taxad				
Soil Map Unit	GHA	Soil Taxon Name		GLENDALE		
Texture Class	NM644 SIL	Soil Phase		GLENDALE- HARKEY		
Texture Modifier	NM644 SILT LOAM					
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation				
NOAA Annual Precipitation	12.74	NOAA Growing Season Precipitation		8.4		
NOAA Avg Annual Precipitation	13.16	NOAA Avg Growing Season Precipitation		10.83		
Disturbances and Animal Use:						
Part 2. Attributes and Indicators						
		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns					X
Comments:						
S H	Pedestals and/or Terracettes					X
Comments:						
S H	Bare Ground			X		

Comments:	Large patches of bare ground exist in this site-seem to be filling in from the edges					
S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:	N/A					
H	Litter Movement				X	
Comments:						
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff					X
Comments:						
S H B	Compaction Layer				X	
Comments:	In some bare areas					
B	Functional/Structural Groups			X		
Comments:	Lack of shrub componet tobosa and giant sacaton					
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount				X	
Comments:						
B	Annual Production			X		
Comments:						
B	Invasive Plants					X
Comments:	Salt cedar occurs in patches					
B	Reproductive Capability of Perennial Plants					X
Comments:	Appears to have been winter grazed					
S	Physical/Chemical/Biological Crusts				X	

Comments:	Physical crust					
B	Wildlife Habitat			X		
Comments:	Missing shrub component. Floodplain grassland habitat type with some mesquite and saltcedar invasion. General lack of vegetative species diversity.					
B	Wildlife Populations			X		
Comments:	No specific population information but area would be utilized by mule deer, upland game birds, neotropical migrants, waterfowl and a variety of terrestrial nongame species due to the proximity of the Pecos River, which is not within the allotment but due west of this site.					
B	Special Status Species Habitat				X	
Comments:	Pecos puzzle sunflower in Lloyds Draw.					
B	Special Status Species Populations				X	
Comments:	Pecos puzzle sunflower in Lloyds Draw appears to be static primarily due to drought conditions.					
Part 3. Summary						
A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.						
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	1	4	5
H	Hydrologic	0	0	1	5	5
B	Biotic	0	0	4	6	3
B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the <i>Does not Meet</i> column, Moderate becomes <i>May Need More Info</i> , and Slight to Moderate and None to Slight merge to form the <i>Meets</i> columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.						
Attribute	Rationale	Does Not Meet		May Need	Meets	

			More Info	
Soil		0	1	9
Hydrologic		0	1	10
Biotic		0	4	9
<p>Site Notes: Pecos puzzle sunflower in Lloyds Draw is limited by availability of water; expands and contracts based on precip patterns and water availability in the draw. Vegetative cover and production is improving from last study date. Shrub component is better in the southern part of the draw; rayless goldenrod also increases. O&G activity is present in the draw and may contribute to the large bare patches.</p> <p>Wildlife - Need to closely monitor livestock use in Lloyd's Draw. At one time, an AMP specified season of use (dormant) for the pasture and the relocation of mineral licks, feed stations and livestock water out of the draw. If the current lessee does not abide by these mitigation measures, may need to fence off a portion of the draw. Informal consultation with the USFWS was conducted in the field and led to the development of the mitigation measures that need to be enforced.</p>				

RFOs Upland and Biotic Standard Assessment Summary Worksheet						
SITE 65137-SOUTH BIG-D245						
Legal Land Desc	SWNE 8 0090S 0260E Meridian 23		Acreage		1489	
Ecosite			Photo Taken		Y	
Watershed	13060007010 GOPHER					
Observers	BAGGAO/SPAIN		Observation Date		04/08/2003	
County Soil Survey	NM644 CHAVES NORTH		Soil Var/Taxad			
Soil Map Unit	SNB		Soil Taxon Name		SOTIM	
Texture Class	NM644 FSL		Soil Phase		SOTIM- SIMONA	
Texture Modifier	NM644 FINE SANDY LOAM					
Observed Avg Annual Precipitation			Observed Avg Growing Season Precipitation			
NOAA Annual Precipitation	12.74		NOAA Growing Season Precipitation		8.4	
NOAA Avg Annual Precipitation	13.16		NOAA Avg Growing Season Precipitation		10.83	
Disturbances and Animal Use:	Cattle and horses grazing					
Part 2. Attributes and Indicators						
		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns				X	
Comments:	Toward slight					
S H	Pedestals and/or Terracettes				X	
Comments:						
S H	Bare Ground			X		

Comments:						
S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement				X	
Comments:						
S H B	Soil Surface Resistance to Erosion			X		
Comments:						
S H B	Soil Surface Loss or Degradation			X		
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups				X	
Comments:						
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount					X
Comments:						
B	Annual Production				X	
Comments:						
B	Invasive Plants		X			
Comments:	Mesquite					
B	Reproductive Capability of Perennial Plants					X
Comments:						
S	Physical/Chemical/Biological Crusts				X	
Comments:	physical					

B	Wildlife Habitat			X		
Comments:	Shift toward shrubby species; potential pronghorn habitat. Grassland habitat with heavy mesquite invasion, potential pronghorn habitat degraded.					
B	Wildlife Populations				X	
Comments:	No specific population information. Shift toward wildlife species that prefer or can tolerate shrubby species. Potential pronghorn antelope habitat.					
B	Special Status Species Habitat					X
Comments:	None known to occur.					
B	Special Status Species Populations					X
Comments:	None known to occur.					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

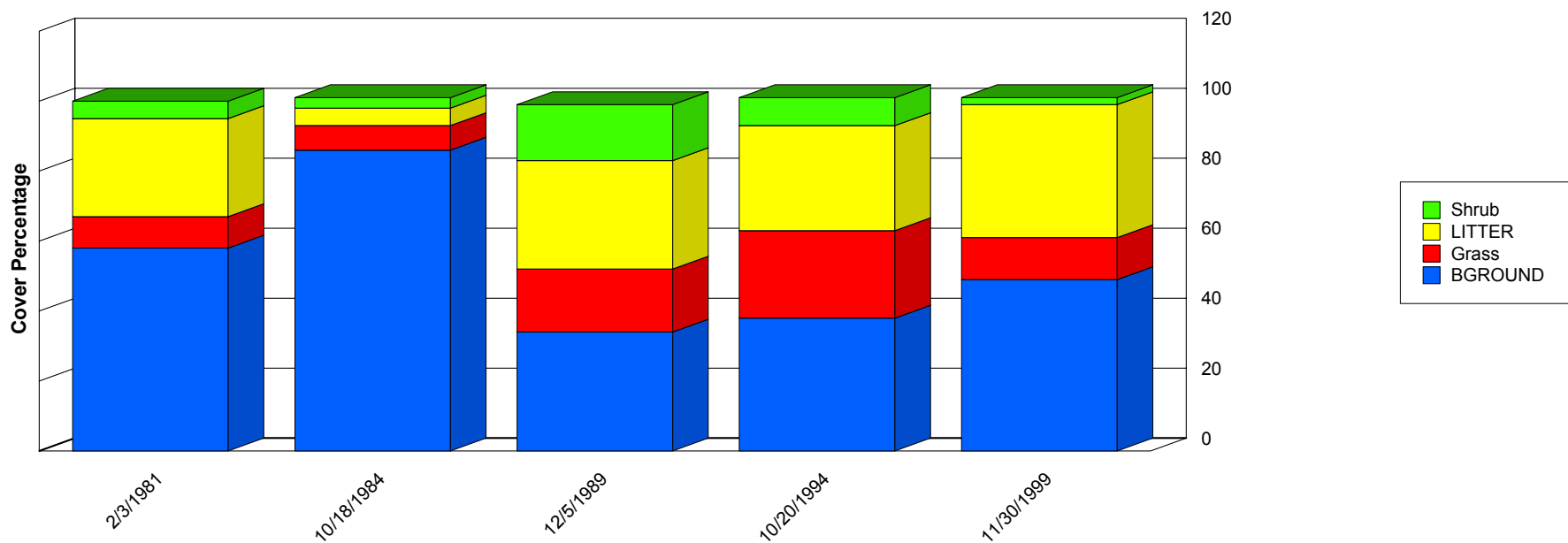
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	3	3	4
H	Hydrologic	0	0	3	4	4
B	Biotic	0	1	3	3	6

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	3	7

Hydrologic		0	3	8
Biotic		1	3	9
<p>Site Notes: This is an interesting site. The Sotim-Simona (SNB) soil association supports Sandy/Shallow Sand SD-3 ecological site. In the lower and depressional areas a Loamy Sd-3 inclusion occurs. This area has vine mesquite growing in many of the mequite bushes and has thick mats of buffalo/blue grama in the despressions. This may be due to a transitional zone between the HMA and SNB soil map units.</p>				

Ground Cover Trends



	2/3/1981	10/18/1984	12/5/1989	10/20/1994	11/30/1999
BGROUND	58.00	86.00	34.00	38.00	49.00
Grass	9.00	7.00	18.00	25.00	12.00
LITTER	28.00	5.00	31.00	30.00	38.00
Shrub	5.00	3.00	16.00	8.00	2.00
Total	100.00	101.00	99.00	101.00	101.00

Report Parameters

SITE NAME LIKE 65137-HOME-D244
 ON/AFTER 10/01/1980
 ON/BEFORE 09/30/2001

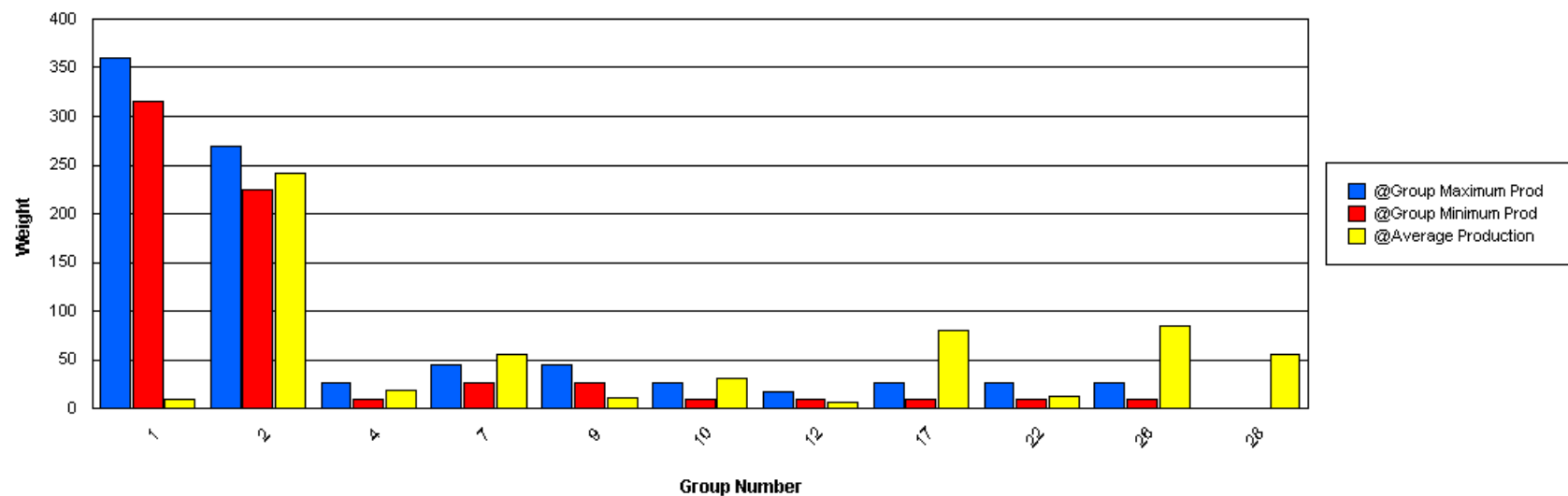
Functional / Structural Groups

Report Parameters

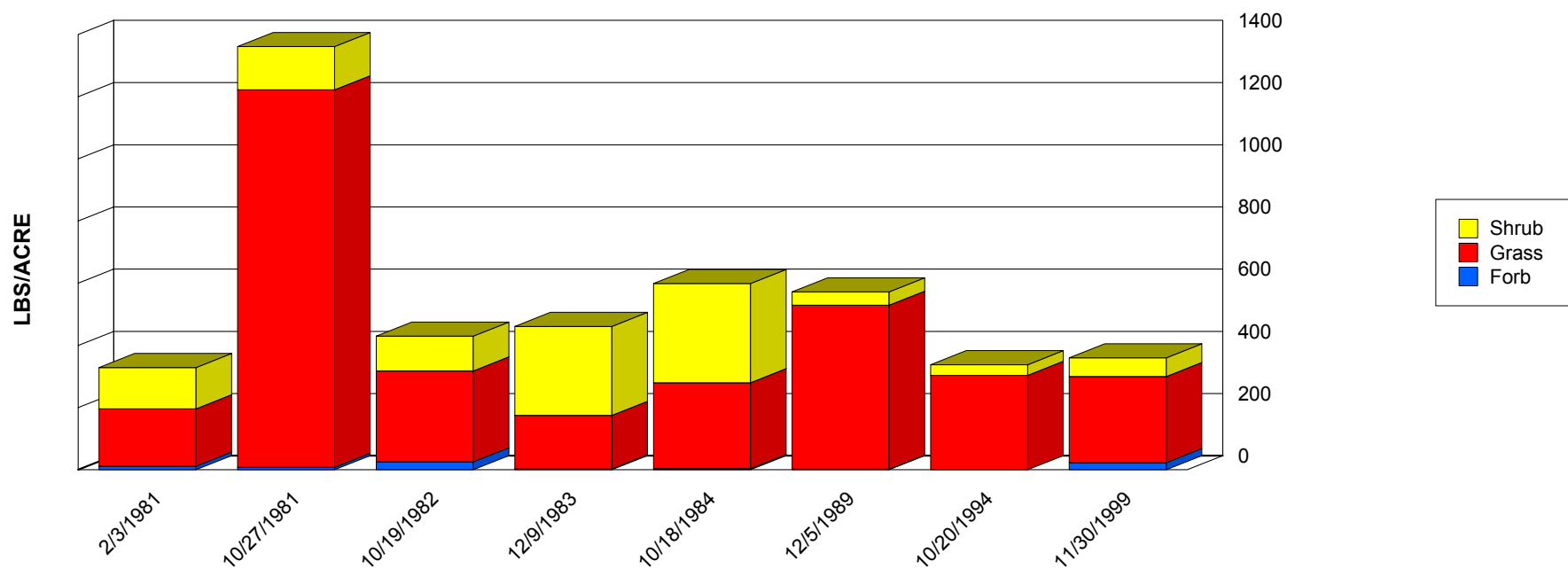
SITE NAME LIKE 65137-HOME-D244
 ON/AFTER 10/01/1979
 ON/BEFORE 09/30/2001
 MIN LBS TO GRAPH 3
 SELECTED ECOSITE 042CY007NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	HIMU2	315	360	0.00	36.00	9.57	13.20
1	Grass	SCBR2	315	360	0.00	1.00	0.20	0.40
2	Grass	BOER4	225	270	28.00	766.00	212.25	223.41
2	Grass	BOGR2	225	270	0.00	78.00	29.88	21.58
4	Grass	MUPO2	9	27	0.00	21.00	11.40	8.45
4	Grass	SELE6	9	27	0.00	1.00	0.17	0.37
4	Grass	SEMA5	9	27	0.00	29.00	7.00	11.15
7	Grass	ARIST	27	45	2.00	51.00	21.13	16.76
7	Grass	SPCR	27	45	0.00	92.00	34.00	33.50
8	Grass	PAOB	9	27	0.00	14.00	2.86	4.73
9	Grass	MUAR2	27	45	0.00	30.00	10.63	8.79
10	Grass	BOBR	9	27	0.00	98.00	30.57	35.16
12	Grass	PAHA	9	18	0.00	37.00	6.14	12.63
16	Grass	AAGG	9	27	0.00	7.00	2.00	2.76
17	Grass	ERPU8	9	27	0.00	56.00	16.83	21.50
17	Grass	MUTO2	9	27	0.00	17.00	4.25	7.36
17	Grass	PARA2	9	27	0.00	24.00	5.20	9.43
17	Grass	SPCO4	9	27	0.00	147.00	36.75	63.65
17	Grass	SPFL2	9	27	0.00	9.00	3.20	3.97
17	Grass	SPNE	9	27	2.00	26.00	14.00	12.00
19	Forb	CROTO	9	27	0.00	5.00	1.25	2.17
19	Forb	CRPO5	9	27	0.00	2.00	0.33	0.75
19	Forb	LEFE	9	27	0.00	3.00	0.50	1.12
21	Forb	LEMO2	9	27	0.00	3.00	1.00	1.41
22	Forb	AAFF	9	27	0.00	20.00	5.33	7.89
22	Forb	PECTI	9	27	0.00	23.00	7.67	10.84

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
22	Forb	PEPA2	9	27	0.00	1.00	0.17	0.37
24	Forb	DYPE2	9	27	1.00	3.00	2.00	1.00
24	Forb	SOEL	9	27	0.00	1.00	0.17	0.37
26	Shrub	GUSA2	9	27	0.00	314.00	85.13	98.23
28	Shrub	PRGL2	0	0	0.00	226.00	55.63	76.10



Production Lbs/Acre Trends

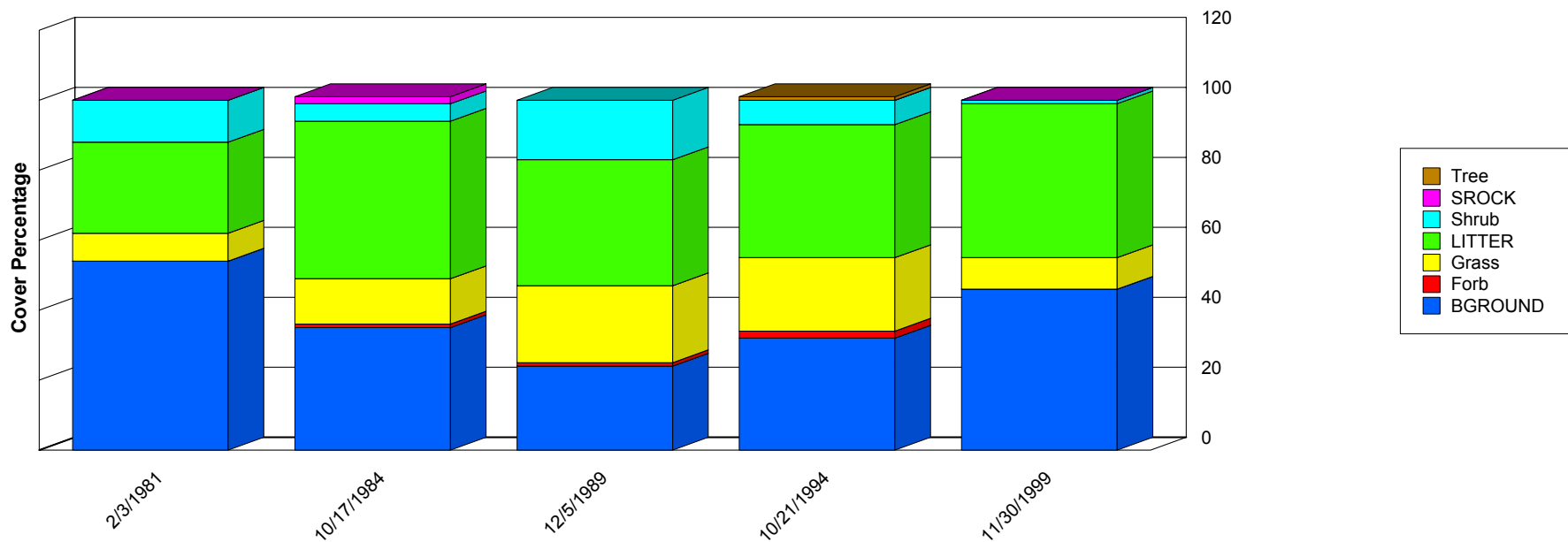


	2/3/1981	10/27/1981	10/19/1982	12/9/1983	10/18/1984	12/5/1989	10/20/1994	11/30/1999
Forb	12.00	8.00	26.00	3.00	4.00	2.00	0.00	23.00
Grass	184.00	1,214.00	292.00	172.00	276.00	527.00	304.00	277.00
Shrub	133.00	139.00	112.00	286.00	319.00	43.00	34.00	60.00
Total	329.00	1,361.00	430.00	461.00	599.00	572.00	338.00	360.00

Report Parameters

SITE NAME LIKE 65137-HOME-D244
 ON/AFTER 10/01/1980
 ON/BEFORE 09/30/2001

Ground Cover Trends



	2/3/1981	10/17/1984	12/5/1989	10/21/1994	11/30/1999
BGROUND	54.00	35.00	24.00	32.00	46.00
Forb	0.00	1.00	1.00	2.00	0.00
Grass	8.00	13.00	22.00	21.00	9.00
LITTER	26.00	45.00	36.00	38.00	44.00
Shrub	12.00	5.00	17.00	7.00	1.00
SROCK	0.00	2.00	0.00	0.00	0.00
Tree	0.00	0.00	0.00	1.00	0.00
Total	100.00	101.00	100.00	101.00	100.00

Report Parameters

SITE NAME LIKE 65137-NORTH BIG-D246
 ON/AFTER 10/01/1980
 ON/BEFORE 09/30/2001

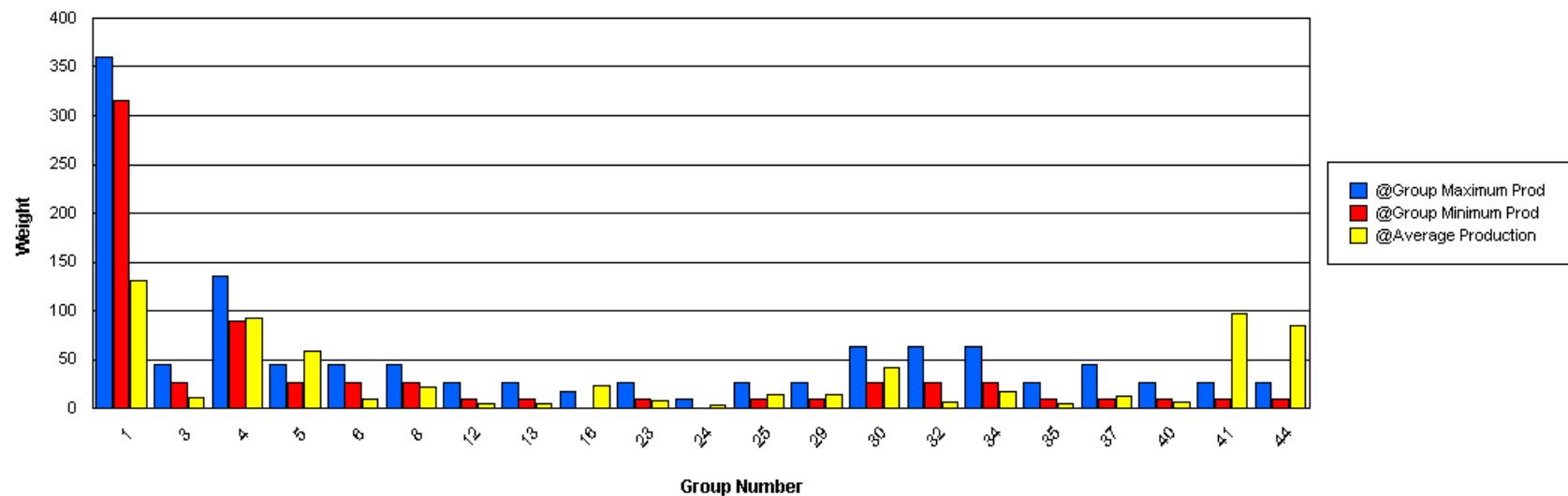
Functional / Structural Groups

Report Parameters

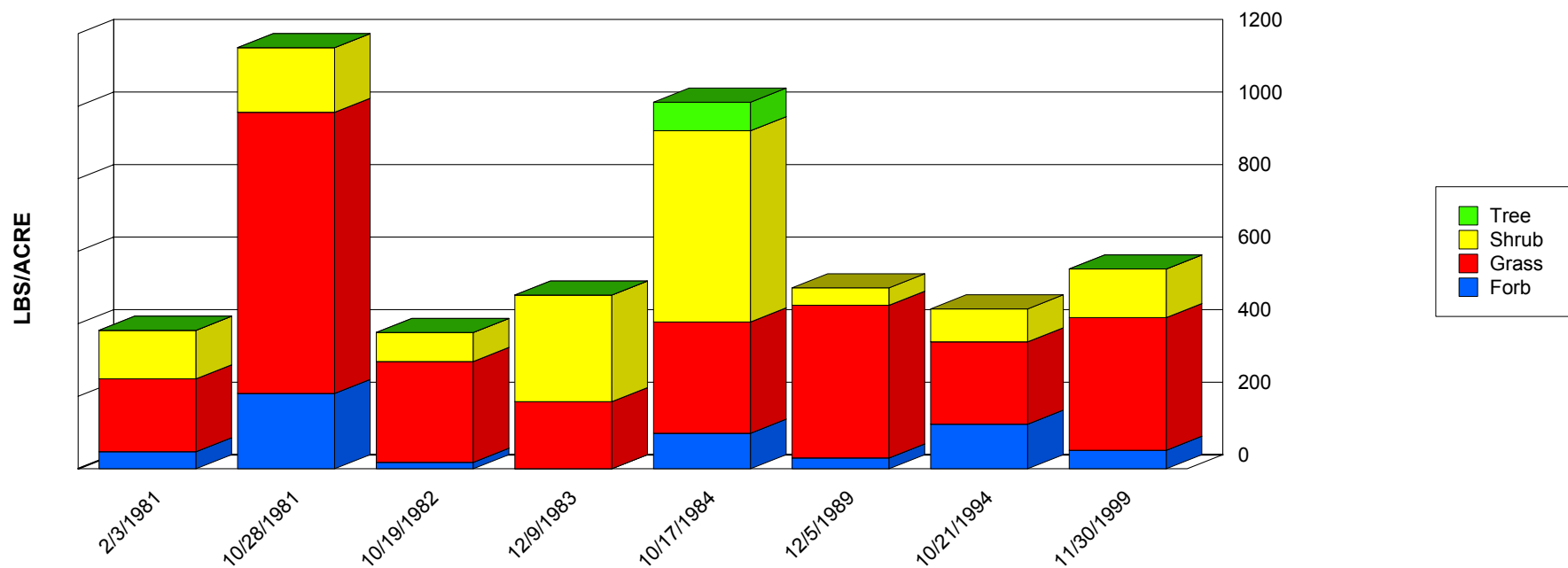
SITE NAME LIKE 65137-NORTH BIG-D246
 ON/AFTER 10/01/1979
 ON/BEFORE 09/30/2001
 MIN LBS TO GRAPH 3
 SELECTED ECOSITE 042CY004NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	315	360	0.00	338.00	131.50	88.03
3	Grass	MUPO2	27	45	0.00	32.00	11.63	10.58
4	Grass	SPCO4	90	135	0.00	27.00	4.67	9.99
4	Grass	SPCR	90	135	0.00	149.00	63.38	45.17
4	Grass	SPFL2	90	135	0.00	65.00	24.00	25.05
5	Grass	ARIST	27	45	4.00	122.00	58.75	42.39
6	Grass	SEMA5	27	45	0.00	36.00	9.83	12.43
8	Grass	BOSA	27	45	3.00	41.00	22.00	19.00
12	Grass	LECO	9	27	3.00	7.00	5.00	2.00
13	Grass	TRMU	9	27	0.00	15.00	5.00	7.07
15	Grass	AAGG	9	45	0.00	5.00	1.00	2.00
16	Grass	BOBR	0	18	0.00	121.00	24.20	48.40
18	Grass	ENDE	0	9	0.00	1.00	0.20	0.40
23	Grass	MUAR2	9	27	0.00	23.00	7.67	10.18
24	Grass	PAHA	0	9	0.00	12.00	3.50	5.02
25	Grass	PARA2	9	27	0.00	41.00	14.00	16.80
29	Grass	BOHI2	9	27	0.00	9.00	3.38	3.60
29	Grass	PANIC	9	27	0.00	19.00	11.00	8.04
30	Forb	CROTO	27	63	0.00	92.00	28.63	27.74
30	Forb	MELE2	27	63	0.00	47.00	13.20	18.43
32	Forb	LEFE	27	63	0.00	16.00	4.00	6.93
32	Forb	LESQU	27	63	0.00	8.00	1.83	2.97
34	Forb	AAFF	27	63	0.00	51.00	13.75	16.04
34	Forb	DIWI	27	63	0.00	14.00	3.50	6.06
35	Forb	ASMO	9	27	0.00	5.00	1.25	2.17
35	Forb	CASSI	9	27	0.00	7.00	1.75	3.03

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
35	Forb	CHCO	9	27	0.00	3.00	0.75	1.30
35	Forb	VERBE	9	27	0.00	3.00	0.75	1.30
37	Tree	YUEL	9	45	0.00	79.00	13.17	29.44
40	Shrub	COER5	9	27	0.00	17.00	6.00	7.79
41	Shrub	GUSA2	9	27	10.00	496.00	97.75	155.82
44	Shrub	PRGL2	9	27	0.00	163.00	85.25	56.40



Production Lbs/Acre Trends

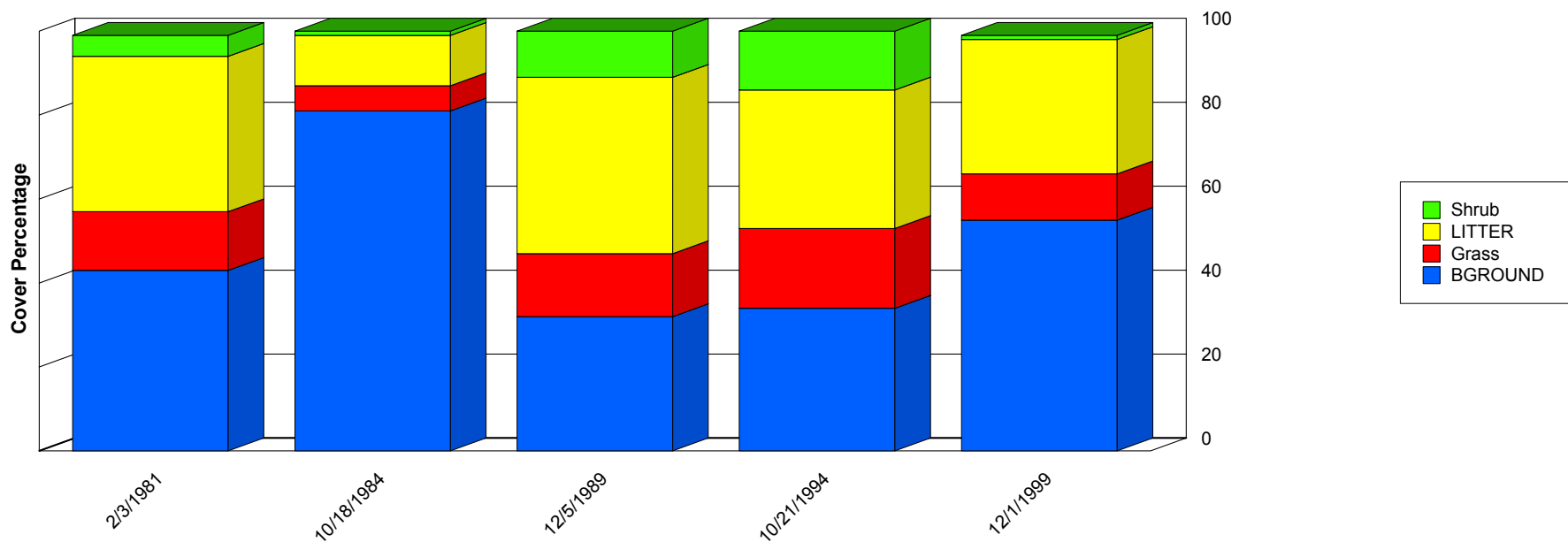


	2/3/1981	10/28/1981	10/19/1982	12/9/1983	10/17/1984	12/5/1989	10/21/1994	11/30/1999
Forb	47.00	208.00	18.00	0.00	98.00	30.00	123.00	51.00
Grass	201.00	775.00	278.00	185.00	307.00	421.00	227.00	366.00
Shrub	134.00	178.00	80.00	294.00	527.00	48.00	91.00	134.00
Tree	0.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
Total	382.00	1,161.00	376.00	479.00	1,011.00	499.00	441.00	551.00

Report Parameters

SITE NAME LIKE 65137-NORTH BIG-D246
 ON/AFTER 10/01/1980
 ON/BEFORE 09/30/2001

Ground Cover Trends



	2/3/1981	10/18/1984	12/5/1989	10/21/1994	12/1/1999
BGROUND	43.00	81.00	32.00	34.00	55.00
Grass	14.00	6.00	15.00	19.00	11.00
LITTER	37.00	12.00	42.00	33.00	32.00
Shrub	5.00	1.00	11.00	14.00	1.00
Total	99.00	100.00	100.00	100.00	99.00

Report Parameters

SITE NAME LIKE 65137-RAILROAD-D247
 ON/AFTER 10/01/1980
 ON/BEFORE 09/30/2001

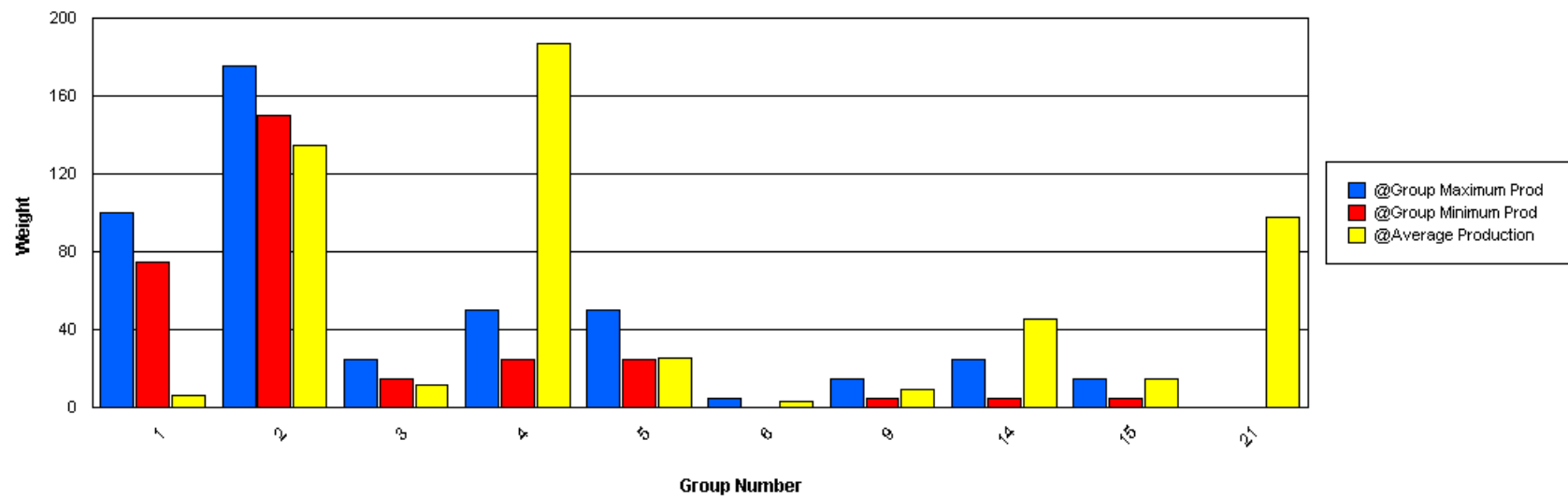
Functional / Structural Groups

Report Parameters

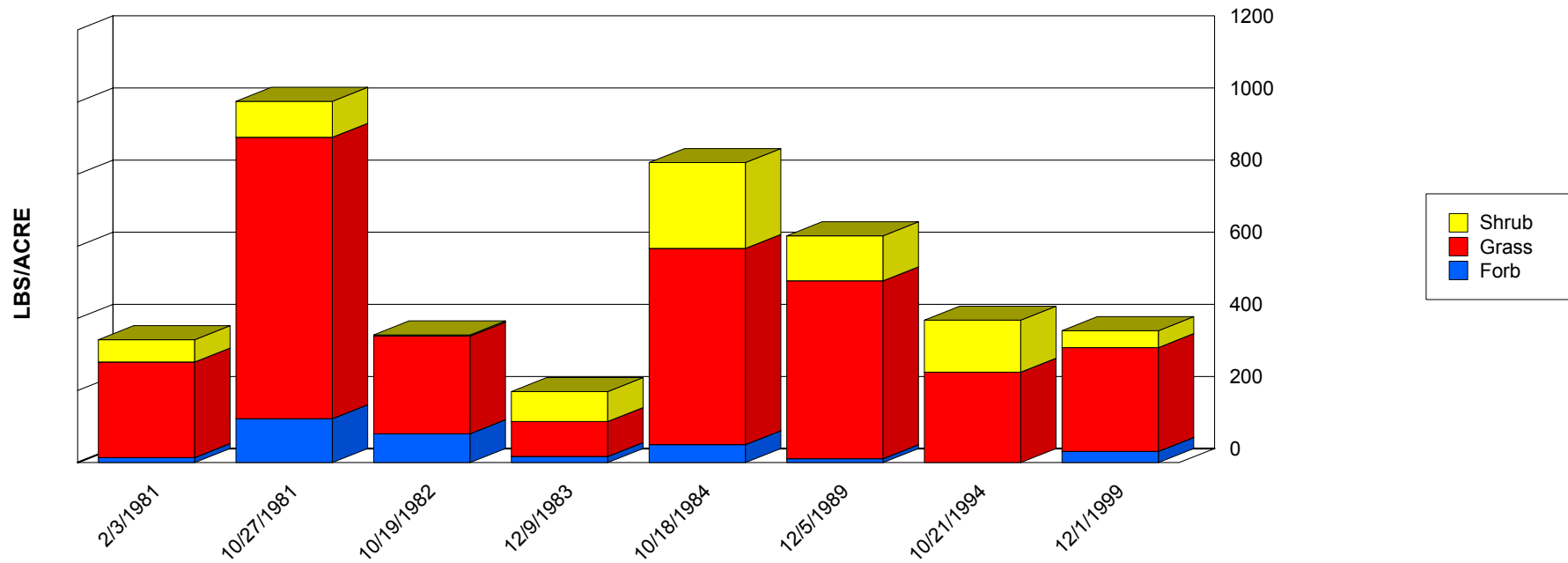
SITE NAME LIKE 65137-RAILROAD-D247
 ON/AFTER 10/01/1979
 ON/BEFORE 09/30/2001
 MIN LBS TO GRAPH 3
 SELECTED ECOSITE 042CY006NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	SPAI	75	100	0.00	25.00	6.40	9.69
2	Grass	BOBR	150	175	0.00	184.00	91.13	58.22
2	Grass	BOER4	150	175	0.00	127.00	43.50	36.17
3	Grass	MUPO2	15	25	0.00	44.00	9.29	14.84
3	Grass	SEMA5	15	25	0.00	7.00	2.17	2.41
4	Grass	BOGR2	25	50	0.00	268.00	113.13	92.02
4	Grass	SPCR	25	50	0.00	213.00	46.00	66.17
4	Grass	SPNE	25	50	0.00	83.00	27.71	25.93
5	Grass	ARIST	25	50	0.00	54.00	8.71	18.57
5	Grass	ERPU8	25	50	1.00	79.00	14.86	26.35
5	Grass	MUAR	25	50	0.00	6.00	1.33	2.21
5	Grass	SCBR2	25	50	0.00	2.00	1.00	1.00
6	Grass	AAGG	0	5	0.00	12.00	3.40	4.72
6	Grass	BOBA2	0	5	0.00	0.00	0.00	0.00
7	Grass	ENDE	5	15	0.00	8.00	1.83	2.97
8	Grass	HIMU2	15	25	0.00	9.00	2.33	3.50
9	Grass	PAOB	5	15	0.00	54.00	9.57	18.36
10	Grass	MUAR2	5	15	0.00	6.00	1.00	2.24
10	Grass	PAHA	5	15	0.00	1.00	0.50	0.50
14	Forb	AAFF	5	25	0.00	27.00	7.43	8.83
14	Forb	PECTI	5	25	0.00	46.00	15.33	21.68
14	Forb	PEPA2	5	25	0.00	122.00	22.83	44.69
15	Forb	LEMO2	5	15	0.00	33.00	11.33	12.72
15	Forb	MELE2	5	15	0.00	4.00	0.67	1.49
15	Forb	PPFF	5	15	0.00	4.00	1.40	1.74
15	Forb	SPWR	5	15	0.00	8.00	1.33	2.98

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
21	Shrub	GUSA2	0	0	0.00	195.00	56.50	63.63
21	Shrub	PRGL2	0	0	0.00	94.00	41.50	36.74



Production Lbs/Acre Trends

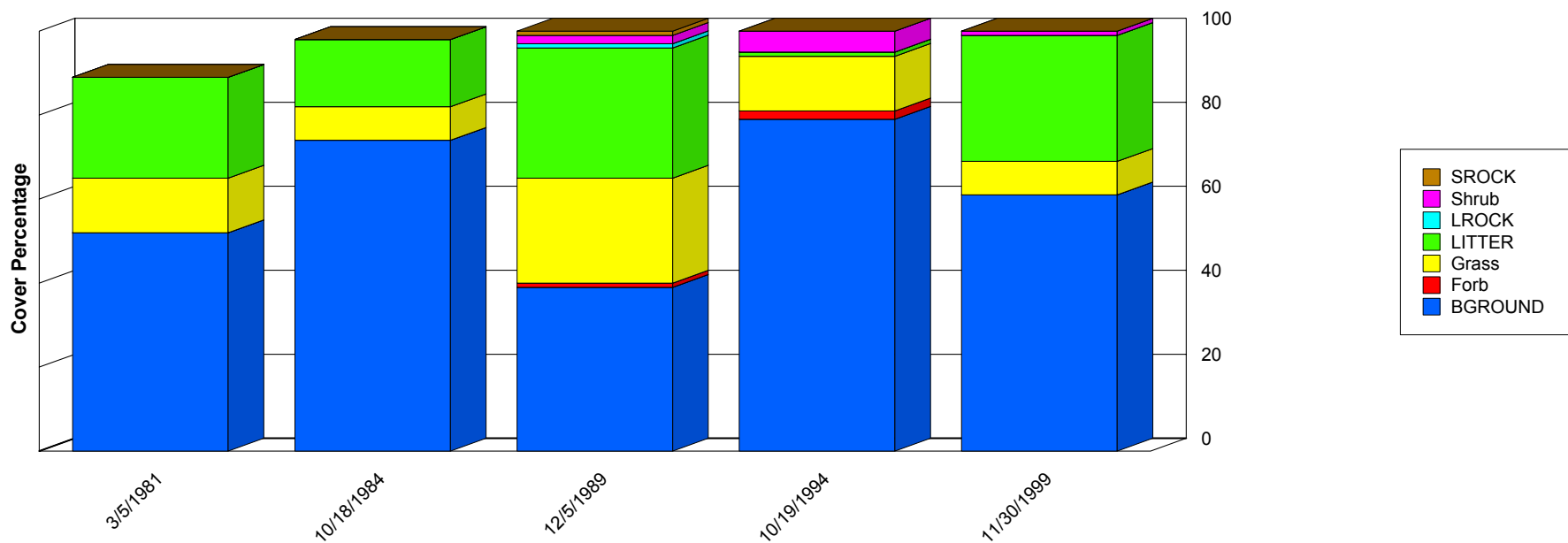


	2/3/1981	10/27/1981	10/19/1982	12/9/1983	10/18/1984	12/5/1989	10/21/1994	12/1/1999
Forb	14.00	122.00	80.00	17.00	50.00	11.00	0.00	31.00
Grass	265.00	780.00	271.00	97.00	544.00	493.00	251.00	288.00
Shrub	62.00	100.00	3.00	83.00	238.00	125.00	144.00	47.00
Total	341.00	1,002.00	354.00	197.00	832.00	629.00	395.00	366.00

Report Parameters

SITE NAME LIKE 65137-RAILROAD-D247
 ON/AFTER 10/01/1980
 ON/BEFORE 09/30/2001

Ground Cover Trends



	3/5/1981	10/18/1984	12/5/1989	10/19/1994	11/30/1999
BGROUND	52.00	74.00	39.00	79.00	61.00
Forb	0.00	0.00	1.00	2.00	0.00
Grass	13.00	8.00	25.00	13.00	8.00
LITTER	24.00	16.00	31.00	1.00	30.00
LROCK	0.00	0.00	1.00	0.00	0.00
Shrub	0.00	0.00	2.00	5.00	1.00
SROCK	0.00	0.00	1.00	0.00	0.00
Total	89.00	98.00	100.00	100.00	100.00

Report Parameters

SITE NAME LIKE 65137-RIVER #1-D243
 ON/AFTER 10/01/1980
 ON/BEFORE 09/30/2001

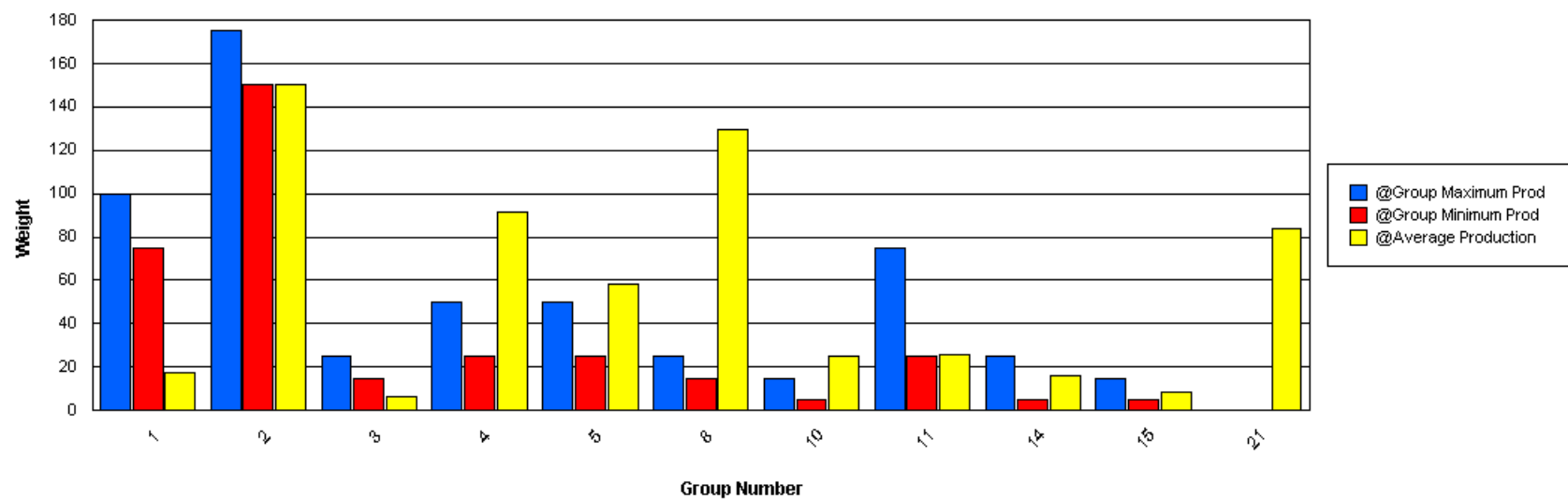
Functional / Structural Groups

Report Parameters

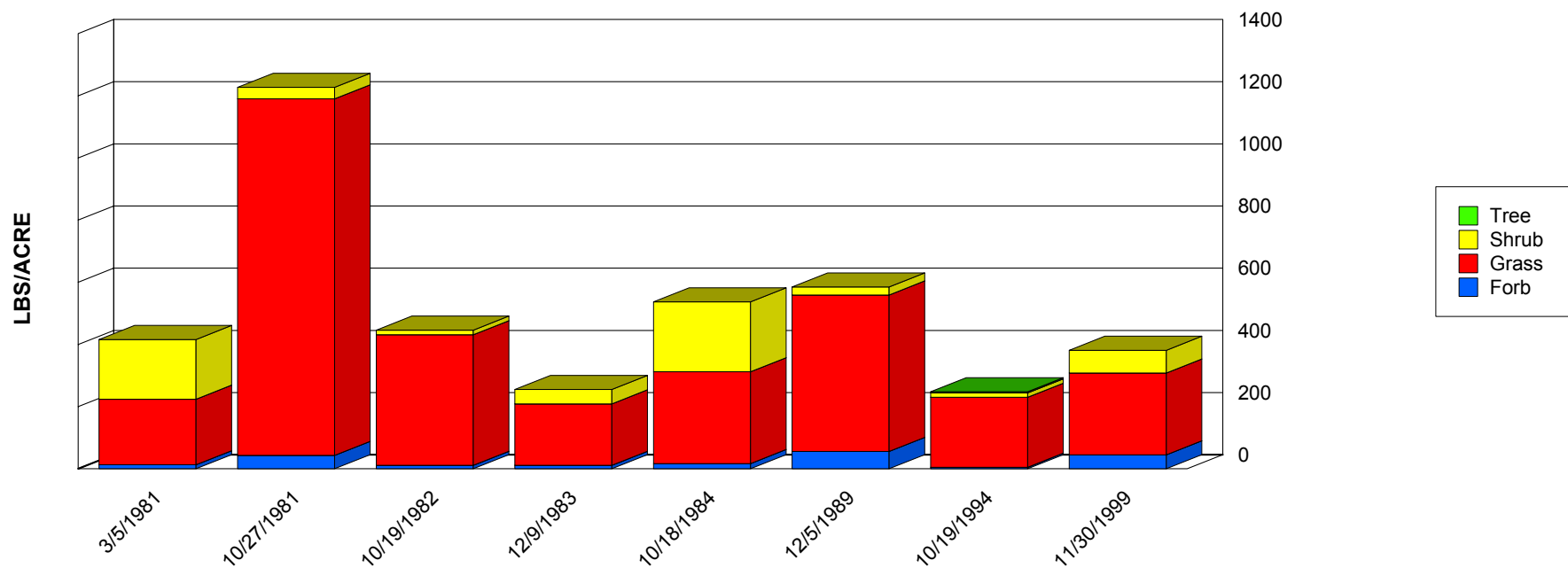
SITE NAME LIKE 65137-RIVER #1-D243
 ON/AFTER 10/01/1979
 ON/BEFORE 09/30/2001
 MIN LBS TO GRAPH 3
 SELECTED ECOSITE 042CY006NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	SPAI	75	100	0.00	50.00	17.40	20.18
2	Grass	BOBR	150	175	23.00	30.00	26.33	2.87
2	Grass	BOER4	150	175	53.00	323.00	124.00	90.47
3	Grass	MUPO2	15	25	0.00	16.00	3.67	5.68
3	Grass	PARA2	15	25	0.00	9.00	3.00	4.24
4	Grass	BOGR2	25	50	0.00	107.00	30.63	33.66
4	Grass	SPCR	25	50	0.00	39.00	9.38	12.25
4	Grass	SPNE	25	50	28.00	87.00	51.33	25.62
5	Grass	ARIST	25	50	0.00	13.00	3.00	4.72
5	Grass	ERPU8	25	50	1.00	95.00	28.00	39.92
5	Grass	MUAR	25	50	0.00	18.00	4.14	5.82
5	Grass	SCBR2	25	50	0.00	74.00	23.17	29.86
6	Grass	AAGG	0	5	0.00	1.00	0.40	0.49
7	Grass	ENDE	5	15	0.00	1.00	0.20	0.40
8	Grass	HIMU2	15	25	44.00	400.00	129.50	107.30
10	Grass	MUAR2	5	15	0.00	15.00	5.71	5.92
10	Grass	MUTO2	5	15	0.00	23.00	5.75	9.96
10	Grass	PAHA	5	15	0.00	3.00	0.67	1.11
10	Grass	SPCO4	5	15	0.00	21.00	5.25	9.09
10	Grass	SPFL2	5	15	0.00	18.00	4.00	7.04
10	Grass	TRPI2	5	15	0.00	16.00	4.00	6.93
11	Forb	COCA2	25	75	2.00	50.00	26.00	24.00
13	Forb	OENOT	5	15	0.00	1.00	0.17	0.37
14	Forb	AAFF	5	25	0.00	44.00	7.88	13.93
14	Forb	EUPHO	5	25	0.00	3.00	1.00	1.41
14	Forb	PECTI	5	25	0.00	2.00	0.67	0.94

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
14	Forb	PEPA2	5	25	0.00	31.00	6.83	11.41
15	Forb	LEFE	5	15	0.00	12.00	3.00	5.20
15	Forb	LEMO2	5	15	0.00	5.00	1.67	2.36
15	Forb	LESQU	5	15	0.00	2.00	0.33	0.75
15	Forb	MELE2	5	15	0.00	0.00	0.00	0.00
15	Forb	PENA	5	15	0.00	4.00	0.83	1.46
15	Forb	PPFF	5	15	1.00	2.00	1.50	0.50
15	Forb	SOLAN	5	15	0.00	1.00	0.17	0.37
15	Forb	SPWR	5	15	0.00	6.00	1.17	2.19
21	Shrub	GUSA2	0	0	0.00	193.00	44.43	61.72
21	Shrub	PRGL2	0	0	0.00	192.00	39.57	63.13



Production Lbs/Acre Trends

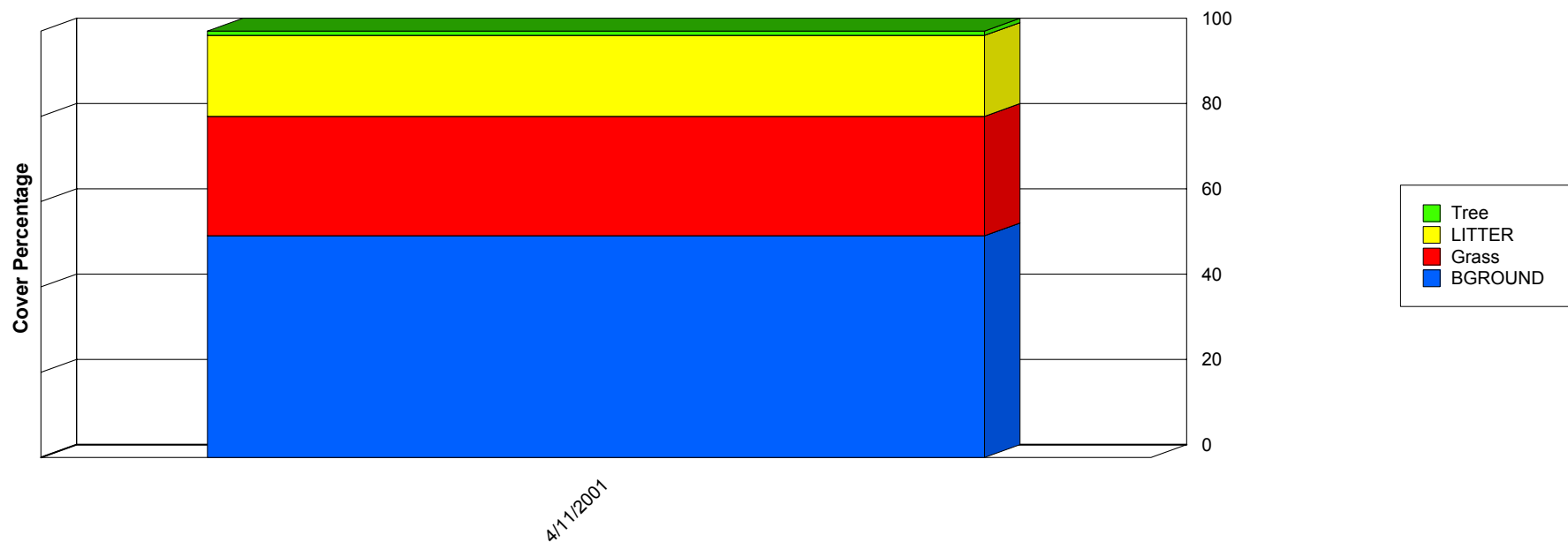


	3/5/1981	10/27/1981	10/19/1982	12/9/1983	10/18/1984	12/5/1989	10/19/1994	11/30/1999
Forb	13.00	43.00	11.00	11.00	17.00	56.00	5.00	45.00
Grass	211.00	1,147.00	420.00	198.00	295.00	503.00	225.00	263.00
Shrub	192.00	37.00	15.00	46.00	225.00	26.00	14.00	73.00
Tree	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00
Total	416.00	1,227.00	446.00	255.00	537.00	585.00	248.00	381.00

Report Parameters

SITE NAME LIKE 65137-RIVER #1-D243
 ON/AFTER 10/01/1980
 ON/BEFORE 09/30/2001

Ground Cover Trends

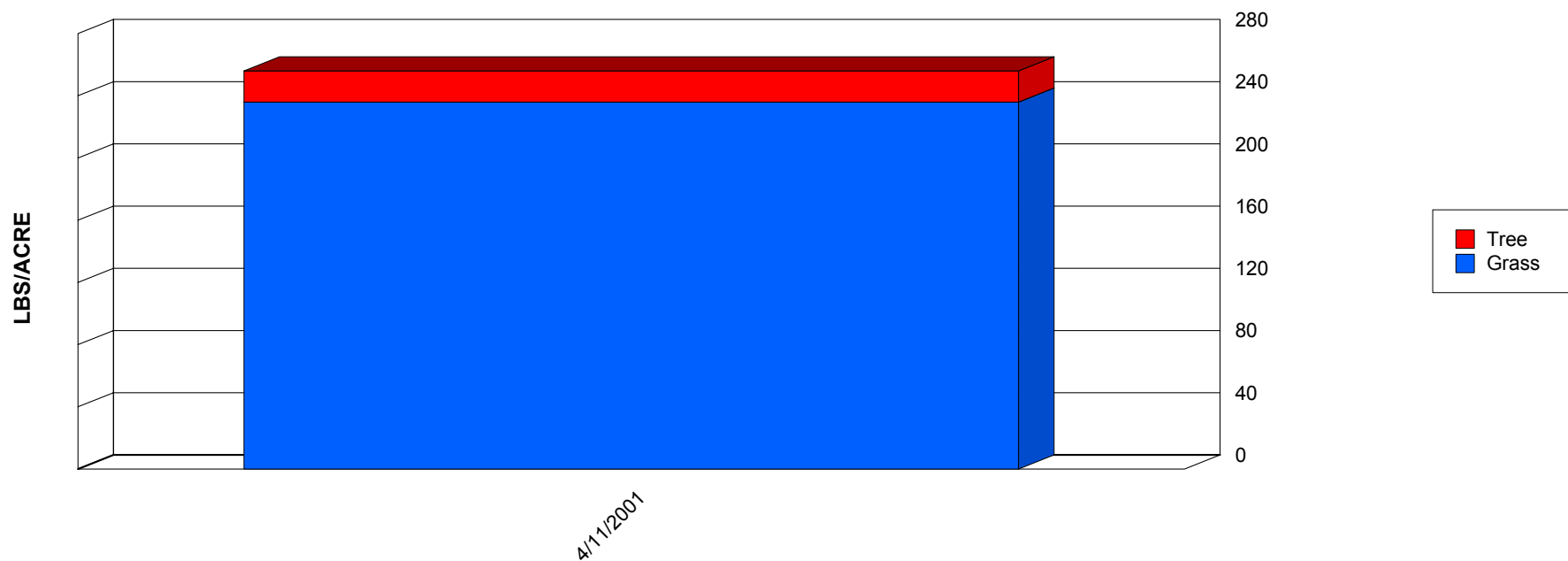


	4/11/2001
BGROUND	52.00
Grass	28.00
LITTER	19.00
Tree	1.00
Total	100.00

Report Parameters

SITE NAME LIKE 65137-RIVER #2-N005
 ON/AFTER 10/01/1980
 ON/BEFORE 09/30/2001

Production Lbs/Acre Trends

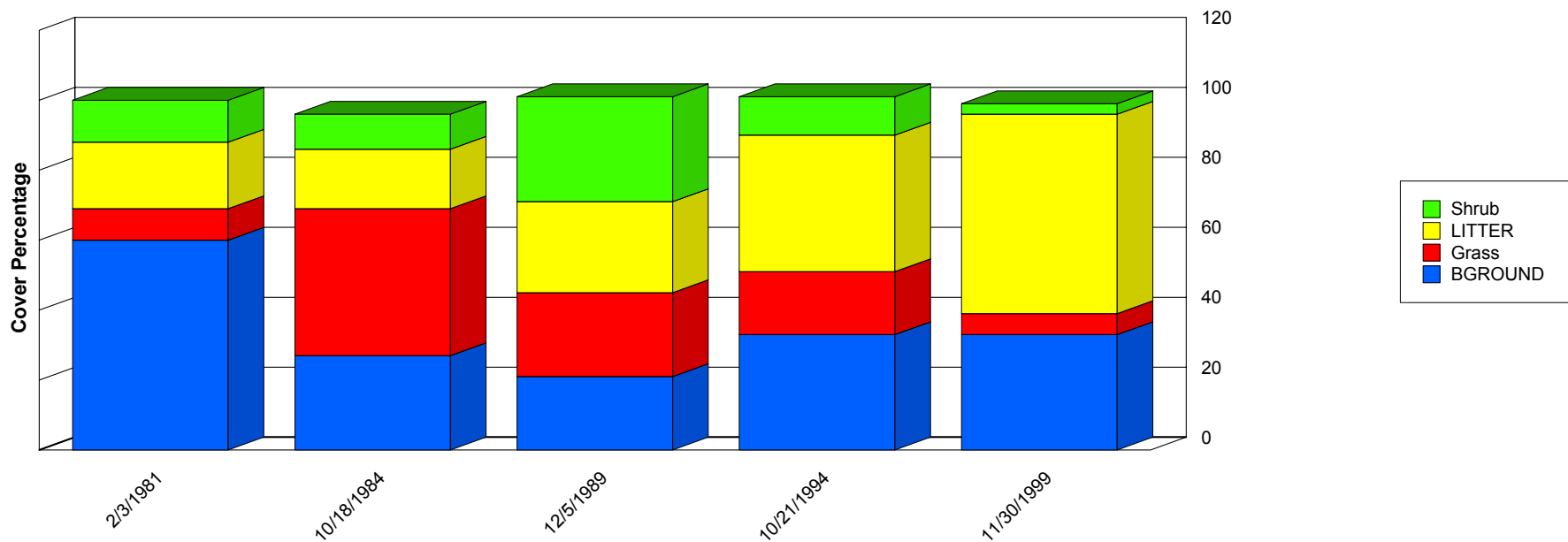


	4/11/2001
Grass	236.00
Tree	20.00
Total	256.00

Report Parameters

SITE NAME LIKE	65137-RIVER #2-N005
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

Ground Cover Trends



	2/3/1981	10/18/1984	12/5/1989	10/21/1994	11/30/1999
BGROUND	60.00	27.00	21.00	33.00	33.00
Grass	9.00	42.00	24.00	18.00	6.00
LITTER	19.00	17.00	26.00	39.00	57.00
Shrub	12.00	10.00	30.00	11.00	3.00
Total	100.00	96.00	101.00	101.00	99.00

Report Parameters

SITE NAME LIKE 65137-SOUTH BIG-D245
 ON/AFTER 10/01/1980
 ON/BEFORE 09/30/2001

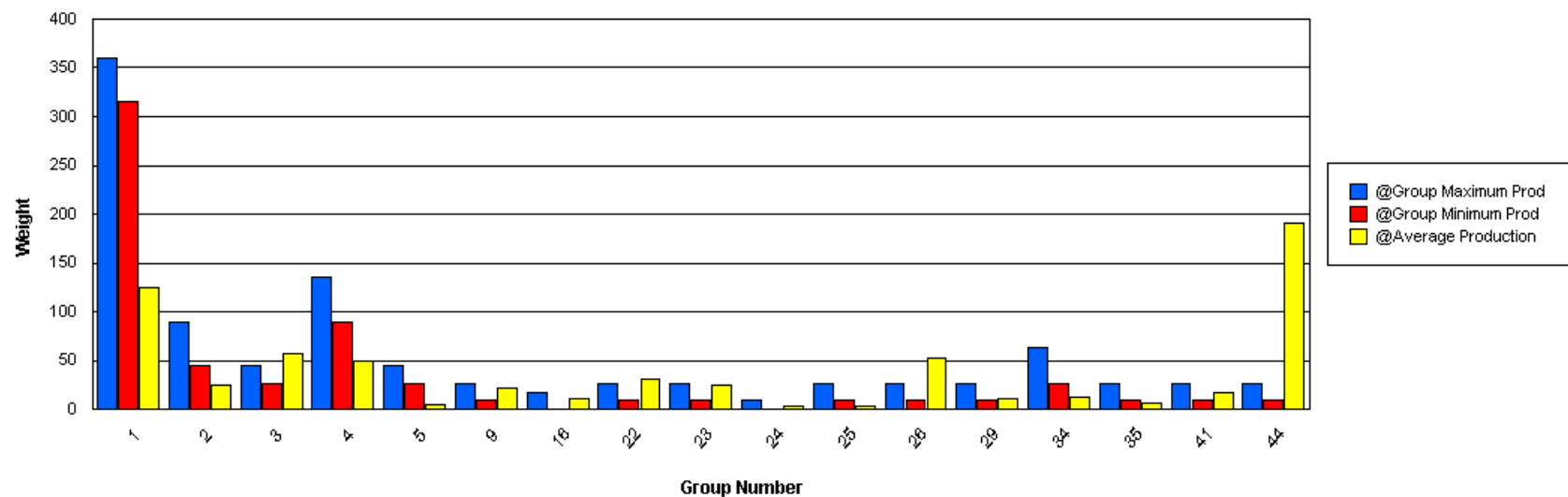
Functional / Structural Groups

Report Parameters

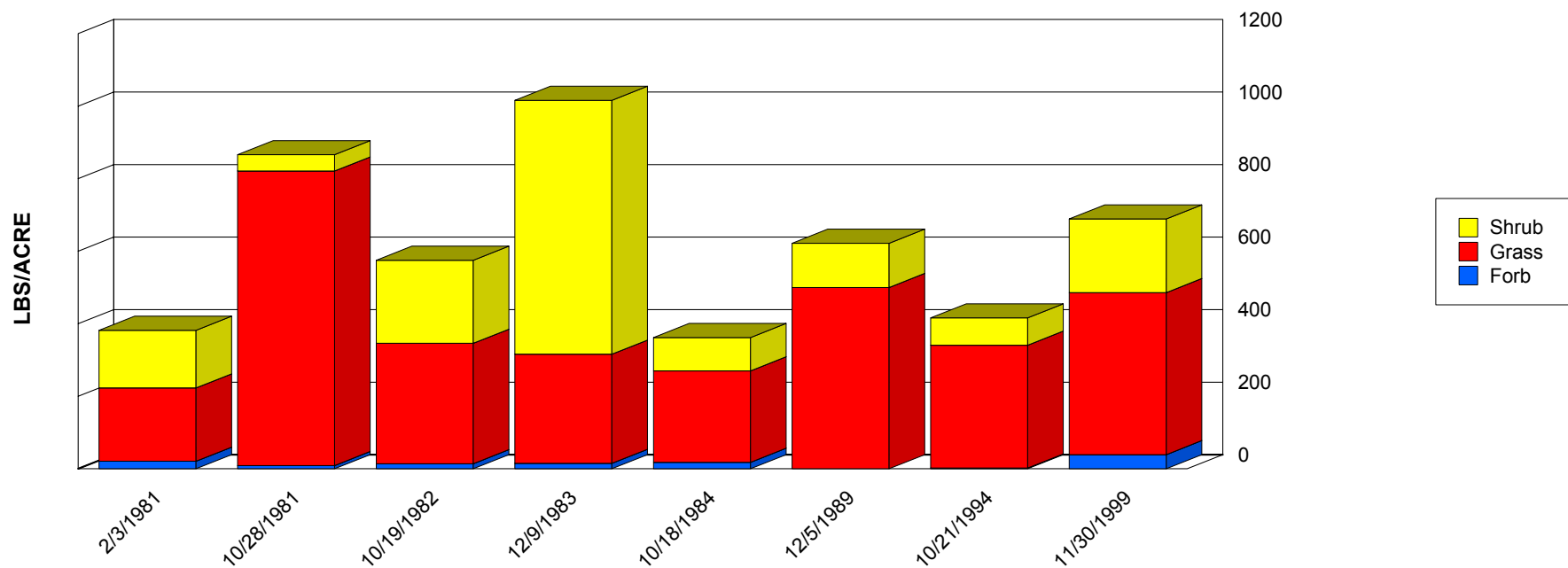
SITE NAME LIKE 65137-SOUTH BIG-D245
 ON/AFTER 10/01/1979
 ON/BEFORE 09/30/2001
 MIN LBS TO GRAPH 3
 SELECTED ECOSITE 042CY004NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	315	360	38.00	253.00	124.25	71.20
2	Grass	BOGR2	45	90	6.00	75.00	24.75	20.96
3	Grass	MUPO2	27	45	3.00	111.00	56.88	37.65
4	Grass	SPCO4	90	135	0.00	6.00	2.00	2.83
4	Grass	SPCR	90	135	0.00	133.00	39.00	44.78
4	Grass	SPFL2	90	135	0.00	34.00	8.20	13.18
5	Grass	ARIST	27	45	0.00	15.00	4.83	5.64
6	Grass	SEMA5	27	45	0.00	7.00	2.57	2.82
9	Grass	PAOB	9	27	0.00	77.00	22.50	23.92
15	Grass	AAGG	9	45	0.00	5.00	1.00	2.00
16	Grass	BOBR	0	18	0.00	29.00	11.80	11.07
22	Grass	MUAR	9	27	0.00	117.00	31.38	38.54
23	Grass	MUAR2	9	27	0.00	52.00	24.88	17.19
24	Grass	PAHA	0	9	0.00	9.00	3.50	3.40
25	Grass	PARA2	9	27	0.00	11.00	3.67	5.19
26	Grass	SCBR2	9	27	4.00	249.00	53.00	81.03
29	Grass	ERPU8	9	27	0.00	26.00	7.29	9.82
29	Grass	SPNE	9	27	0.00	14.00	3.50	5.35
29	Grass	TRPI2	9	27	0.00	1.00	0.17	0.37
30	Forb	CRPO5	27	63	0.00	2.00	0.33	0.75
30	Forb	SPHAE	27	63	0.00	2.00	0.33	0.75
32	Forb	LESQU	27	63	0.00	0.00	0.00	0.00
34	Forb	AAFF	27	63	0.00	27.00	12.50	8.92
35	Forb	LEER	9	27	0.00	5.00	1.25	2.17
35	Forb	LEMO2	9	27	0.00	9.00	2.40	3.50
35	Forb	LEPID	9	27	0.00	3.00	0.75	1.30

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
35	Forb	PENA	9	27	0.00	3.00	0.83	1.07
35	Forb	SOEL	9	27	0.00	5.00	1.00	1.83
35	Forb	VERBE	9	27	0.00	2.00	0.33	0.75
41	Shrub	GUSA2	9	27	2.00	45.00	17.17	14.29
44	Shrub	PRGL2	9	27	0.00	679.00	190.25	196.23



Production Lbs/Acre Trends



	2/3/1981	10/28/1981	10/19/1982	12/9/1983	10/18/1984	12/5/1989	10/21/1994	11/30/1999
Forb	21.00	9.00	14.00	15.00	18.00	0.00	2.00	39.00
Grass	202.00	812.00	332.00	301.00	252.00	500.00	339.00	447.00
Shrub	159.00	45.00	229.00	700.00	92.00	122.00	75.00	203.00
Total	382.00	866.00	575.00	1,016.00	362.00	622.00	416.00	689.00

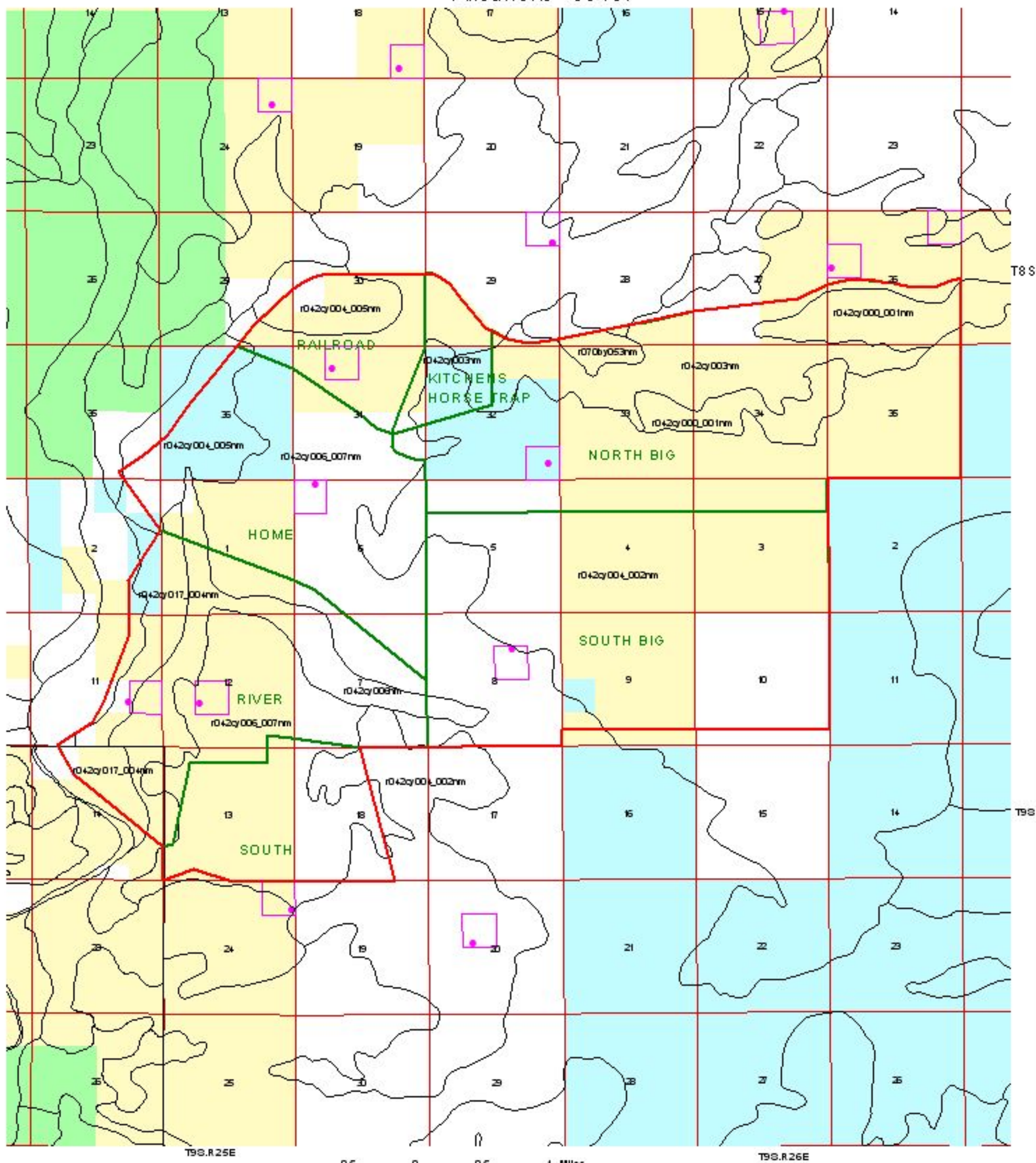
Report Parameters

SITE NAME LIKE 65137-SOUTH BIG-D245
 ON/AFTER 10/01/1980
 ON/BEFORE 09/30/2001



Rangeland Health Assessment Ecological Sites

Allotment - 65137



Study Plots
40 Acres

Study Locations

State Private Public FWS

Allotment Boundary
Pasture Boundary
Ecological Site Boundary

Produced by the Roswell Field Office
GIS Specialist on May 16, 2003.

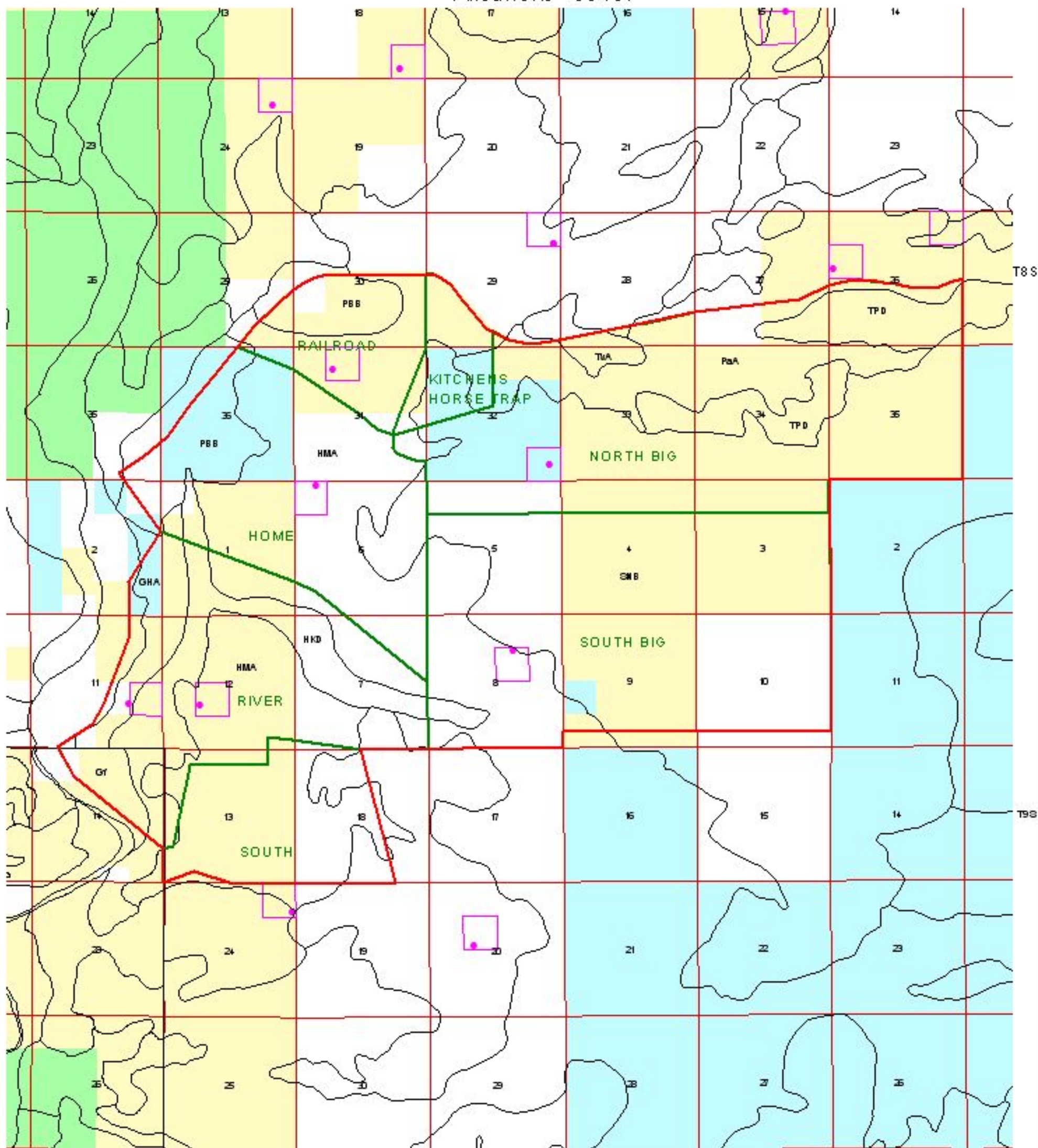
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Rangeland Health Assessment

Soil Mapping Units

Allotment - 65137



Study Plots
40 Acres

Study Locations



State Private Public FWS

Allotment Boundary

Pasture Boundary

Soil Mapping Units

Produced by the Roswell Field Office
GIS Specialist on May 16, 2003.

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